



FORM PTO-1449 <b>SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b>	ATTY. DOCKET NO. 0652.1900001/EKS/J-H	APPLICATION NO. 10/717,615
	FIRST NAMED INVENTOR Meyers, G.	
	FILING DATE November 21, 2003	ART UNIT 1645

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
RZ	AA1	4,719,177	01/12/1988	Baltimore et al.			11/12/1981
RZ	AB1	5,206,163	04/27/1993	Renard et al.			06/06/1990
RZ	AC1	6,001,613	12/14/1999	Donis et al.			05/21/1997
RZ	AD1	6,168,942	01/02/2001	Cao et al.			11/04/1999
RZ	AE1	6,610,305	08/26/2003	Elbers et al.			11/06/2000
RZ	AF1	2004/0038198	02/26/2004	Elbers et al.			09/06/2002
	AG						
	AH						
	AI						
	AJ						
	AK						

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	11	
RZ	AS	11	Behrens, S-E., et al., "Characterization of an Autonomous Subgenomic Pestivirus RNA Replicon," J. Virol. 72:2364-2372, American Society for Microbiology (March 1998)
RZ	AT	11	Boyer, J-C., and Haenni, A-L., "Minireview: Infectious Transcripts and cDNA Clones of RNA Viruses," Virol. 198:415-428, Elsevier Science B.V. (1994)

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449  <u>SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 0652.1900001/EKS/J-H	APPLICATION NO. 10/717,615
		FIRST NAMED INVENTOR Meyers, G.	FILING DATE November 21, 2003
		ART UNIT 1645	

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

R2	AR	12	Brock, K.V., et al., "Nucleotide sequencing of 5' and 3' termini of bovine viral diarrhea virus by RNA ligation and PCR," <i>J. Virol. Methods</i> 38:39-46, North-Holland Biomedical Press (1992)
R2	AS	12	Chambers, T.J., et al., "Mutagenesis of the yellow fever virus NS2B protein: effects on proteolytic processing, NS2B-NS3 complex formation, and viral replication," <i>J. Virol.</i> 67:6797-6807, American Society for Microbiology (1993)
R2	AT	12	Chon, S.K., et al., "Genetic analysis of the internal ribosome entry segment of bovine viral diarrhea virus," <i>Virology</i> 251:370-382, Elsevier Science B.V. (November 1998)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

		ATTY. DOCKET NO. 0652.1900001/EKS/J-H	APPLICATION NO. 10/717,615
FORM PTO-1449  <u>SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</u>		FIRST NAMED INVENTOR Meyers ,G.	
		FILING DATE November 21, 2003	ART UNIT 1645

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

<i>R2</i>	AR	<u>13</u>	Collett, M.S., et al., "Molecular cloning and nucleotide sequence of the pestivirus bovine viral diarrhea virus," <i>Virology</i> 165:191-199, Elsevier Science B.V. (1988)
<i>R2</i>	AS	<u>13</u>	Cortese, V.S., et al., "Specificity And Duration Of Neutralizing Antibodies Induced In Healthy Cattle After Administration Of A Modified-Live Virus Vaccine Against Bovine Viral Diarrhea," <i>Am. J. Vet. Res.</i> 59:848-850, American Veterinary Medical Association (July 1998)
<i>R2</i>	AT	<u>13</u>	Fekadu, M., et al., "Immunogenicity, Efficacy And Safety Of An Oral Rabies Vaccine (SAG-2) In Dogs," <i>Vaccine</i> 14:465-468, Elsevier Science B.V. (1996)

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <b>SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b>		ATTY. DOCKET NO. 0652.190001/EKS/J-H	APPLICATION NO. 10/717,615
		FIRST NAMED INVENTOR Meyers, G.	
		FILING DATE November 21, 2003	ART UNIT 1645

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

RZ	AR	14	Gu, B., et al., "The RNA Helicase and Nucleotide Triphosphatase Activities of the Bovine Viral Diarrhea Virus NS3 Protein Are Essential for Viral Replication," <i>J. Virol.</i> 74:1794-1800, American Society for Microbiology (February 2000)
RZ	AS	14	Houe, H., et al., "Application Of Antibody Titers Against Bovine Viral Diarrhea Virus (BVDV) As a Measure To Detect Herds With Cattle Persistently Infected With BVDV," <i>J. Vet. Diagn. Invest.</i> 7:327-332, American Association Of Veterinary Laboratory Diagnosticians (1995)
RZ	AT	14	Huang, Q.S., et al., "An in vitro ligation and transfection system for inserting DNA sequences into the latency-associated transcripts (LATs) gene of herpes simplex virus type 1," <i>Gene Ther.</i> 1:300-306, Nature Publishing Group (1994)

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	

		ATTY. DOCKET NO. 0652.1900001/EKS/J-H	APPLICATION NO. 10/717,615
FORM PTO-1449  <u>SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</u>		FIRST NAMED INVENTOR Meyers, G.	
		FILING DATE November 21, 2003	ART UNIT 1645

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RZ	AR	15	Kümmerer, B.M., and Meyers, G., "Correlation between Point Mutations in NS2 and the Viability and Cytopathogenicity of Bovine Viral Diarrhea Virus Strain Oregon Analyzed with an Infectious cDNA Clone," <i>J. Virol.</i> 74:390-400, American Society for Microbiology (January 2000)
RZ	AS	15	Kupfermann, H., et al., "Bovine viral diarrhea virus: characterization of a cytopathogenic defective interfering particle with two internal deletions," <i>J. Virol.</i> 70:8175-8181, American Society for Microbiology (1996)
RZ	AT	15	Lai, C.J., et al., "Infectious RNA transcribed from stably cloned full-length cDNA of dengue type 4 virus," <i>Proc. Natl. Acad. Sci.</i> 88:5139-5143, National Academy of Sciences (1991)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

		ATTY. DOCKET NO. 0652.1900001/EKS/J-H	APPLICATION NO. 10/717,615
FORM PTO-1449  <u>SECOND SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>		FIRST NAMED INVENTOR Meyers, G.	
		FILING DATE November 21, 2003	ART UNIT 1645

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes
	AM						No
	AN						Yes
	AO						No
	AP						Yes
							No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RZ	AR	16	Men, R., et al., "Dengue type 4 virus mutants containing deletions in the 3' noncoding region of the RNA genome: analysis of growth restriction in cell culture and altered viremia pattern and immunogenicity in rhesus monkeys," J. Virol. 70:3930-3937, American Society for Microbiology (1996)
RZ	AS	16	Mendez, E., et al., "Infectious Bovine Viral Diarrhea Virus (Strain NADL) RNA from Stable cDNA Clones: a Cellular Insert Determines NS3 Production and Viral Cytopathogenicity," J. Virol. 72:4737-4745, American Society for Microbiology (June 1998)
RZ	AT	16	Meyers, G., and Thiel, H-J., "Molecular Characterization of Pestiviruses," Adv. Virus Res. 47:53-118, Academic Press (1996)

EXAMINER \_\_\_\_\_ DATE CONSIDERED \_\_\_\_\_

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449  <u>SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 0652.1900001/EKS/J-H	APPLICATION NO. 10/717,615
		FIRST NAMED INVENTOR Meyers, G.	FILING DATE November 21, 2003

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

RZ	AR	17	Moormann, R.J., et al., "Infectious RNA transcribed from an engineered full-length cDNA template of the genome of a pestivirus," J. Virol. 70:763-770, American Society for Microbiology (1996)
RZ	AS	17	Moser, C., et al., "A Recombinant Classical Swine Fever Virus Stably Expresses a Marker Gene," J. Virol. 72:5318-5322, American Society for Microbiology (June 1998)
RZ	AT	17	Murphy, F.A., et al., Veterinary Virology, Academic Press, San Diego, CA, pp.564-566 (May 1999)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

		ATTY. DOCKET NO. 0652.190001/EKS/J-H	APPLICATION NO. 10/717,615
FORM PTO-1449  <u>SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</u>		FIRST NAMED INVENTOR Meyers, G.	
		FILING DATE November 21, 2003	ART UNIT 1645

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

<i>RZ</i>	AR	18	Paoletti, E., et al., "Highly attenuated poxvirus vectors: NYVAC, ALVAC and TROVAC," <i>Dev. Biol. Stand.</i> 84:159-163, Basel Karger (1995)
<i>RZ</i>	AS	18	Ramig, R.F., "Principles of Animal Virus Genetics," in <i>Fundamental Virology</i> , Knipe, D.M., et al., eds., Lippincott Williams & Wilkins, Philadelphia, PA, p. 96 (1991)
<i>RZ</i>	AT	18	Rice, C.M., et al., "Transcription of infectious yellow fever RNA from full-length cDNA templates produced by <i>in vitro</i> ligation," <i>New Biol.</i> 1:285-296, W.B. Saunders (1989)

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <b>SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b>		ATTY. DOCKET NO. 0652.190001/EKS/J-H	APPLICATION NO. 10/717,615
		FIRST NAMED INVENTOR Meyers, G.	
		FILING DATE November 21, 2003	ART UNIT 1645

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

<i>RZ</i>	AR	<u>19</u>	Ruggli, N., et al., "Nucleotide sequence of classical swine fever virus strain Alfort/187 and transcription of infectious RNA from stably cloned full-length cDNA," <i>J. Virol.</i> 70:3478-3487, American Society for Microbiology (1996)
<i>RZ</i>	AS	<u>19</u>	Rümenapf, T., et al., "N-Terminal Protease of Pestiviruses: Identification of Putative Catalytic Residues by Site-Directed Mutagenesis," <i>J. Virol.</i> 72:2544-2547, American Society for Microbiology (March 1998)
<i>RZ</i>	AT	<u>19</u>	Sumiyoshi, H., et al., "Infectious Japanese encephalitis virus RNA can be synthesized from in vitro-ligated cDNA templates," <i>J. Virol.</i> 66:5425-5431, American Society for Microbiology (1992)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <b><u>SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</u></b>		ATTY. DOCKET NO. 0652.1900001/EKS/J-H	APPLICATION NO. 10/717,615
		FIRST NAMED INVENTOR Meyers ,G.	
		FILING DATE November 21, 2003	ART UNIT 1645

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

<i>R2</i>	AR	<u>20</u>	Tratschin, J-D., et al., "Classical Swine Fever Virus Leader Proteinase N <sup>pro</sup> Is Not Required for Viral Replication in Cell Culture," <i>J. Virol.</i> 72:7681-7684, American Society for Microbiology (September 1998)
<i>R2</i>	AS	<u>20</u>	van Oirschot, J.T., et al., "Vaccination of cattle against bovine viral diarrhea," <i>Vet. Microbiol.</i> 64:169-183, Elsevier Science B.V. (January 1999)
<i>R2</i>	AT	<u>20</u>	Vassilev, V.B., "Authentic and chimeric full-length genomic cDNA clones of bovine viral diarrhea virus that yield infectious transcripts," <i>J. Virol.</i> 71:471-478, American Society for Microbiology (June 1997)

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <b>SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b>		ATTY. DOCKET NO. 0652.190001/EKS/J-H	APPLICATION NO. 10/717,615
		FIRST NAMED INVENTOR Meyers, G.	
		FILING DATE November 21, 2003	ART UNIT 1645

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

<i>R2</i>	AR	21	Yu, Z., et al., "Genetic engineering of a <i>Lymantria dispar</i> nuclear polyhedrosis virus for expression of foreign genes," <i>J. Gen. Virol.</i> 73:1509-1514, Society For General Microbiology (1992)
	AS		
	AT		

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.